GenCore version 4.5

OM protein - protein search, using sw model

Run on: June 24, 2002, 20:50:06 ; Search time 12.87 Seconds
(without alignments)
123.362 Million cell updates/sec

Title: US-09-664-326-23
Perfect score: 368
Sequence: 1 LTYTDCTESGQNLCLCEGSN.....PKPQSHNDGDFEEIPEEYLQ 65

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	368	100.0	65	1	US-08-199-506A-2	Sequence 2, Appli
2	368	100.0	65	1	US-08-385-551-1	Sequence 1, Appli
3	368	100.0	65	1	US-08-378-225A-2	Sequence 2, Appli
4	368	100.0	65	6	5180668-1	Patent No. 5180668
5	366	99.5	65	6	5180668-9	Patent No. 5180668
6	360	97.8	65	1	US-07-970-596-1	Sequence 1, Appli
7	360	97.8	65	1	US-07-985-110-18	Sequence 18, Appl
8	360	97.8	65	1	US-07-985-110-22	Sequence 22, Appl
9	360	97.8	65	1	US-07-985-110-23	Sequence 23, Appl
10	360	97.8	65	1	US-07-763-860-1	Sequence 1, Appli
11	360	97.8	65	1	US-08-099-053-18	Sequence 18, Appl
12	360	97.8	65	1	US-08-099-053-22	Sequence 22, Appl
13	360	97.8	65	1	US-08-099-053-23	Sequence 23, Appl
14	360	97.8	65	1	US-07-854-596B-2	Sequence 2, Appli
15	360	97.8	65	1	US-08-058-699-1	Sequence 1, Appli
16	360	97.8	65	1	US-07-910-528-3	Sequence 3, Appli
17	360	97.8	65	1	US-08-348-972-3	Sequence 3, Appli
18	360	97.8	65	1	US-08-452-829-18	Sequence 18, Appl
19	360	97.8	65	1	US-08-452-829-22	Sequence 22, Appl
20	360	97.8	65	1	US-08-452-829-23	Sequence 23, Appl
21	360	97.8	65	1	US-08-255-272-17	Sequence 17, Appl
22	360	97.8	65	1	US-08-406-948A-6	Sequence 6, Appli
23	360	97.8	65	1	US-08-367-758B-14	Sequence 14, Appl
24	360	97.8	65	2	US-08-909-735-14	Sequence 14, Appl
25	360	97.8	65	4	US-09-341-926-2	Sequence 2, Appli
26	360	97.8	65	6	5164304-10	Patent No. 5164304
27	360	97.8	65	6	5167960-1	Patent No. 5167960
28	360	97.8	66	6	5422249-2	Patent No. 5422249
29	360	97.8	82	1	US-08-715-252-2	Sequence 2, Appli
30	360	97.8	82	2	US-08-453-051-4	Sequence 4, Appli
31	360	97.8	92	1	US-08-186-222-4	Sequence 4, Appli
32	360	97.8	134	1	US-07-854-596B-9	Sequence 9, Appli
33	360	97.8	483	1	US-07-854-596B-43	Sequence 43, Appl
34	360	97.8	483	1	US-07-854-596B-47	Sequence 47, Appl
35	359	97.6	64	1	US-08-385-551-2	Sequence 2, Appli
36	359	97.6	64	1	US-08-385-551-6	Sequence 6, Appli
37	359	97.6	64	1	US-08-385-551-8	Sequence 8, Appli
38	358	97.3	65	1	US-07-985-110-20	Sequence 20, Appl
39	358	97.3	65	1	US-08-099-053-20	Sequence 20, Appl
40	358	97.3	65	1	US-08-452-829-20	Sequence 20, Appl
41	356	96.7	65	4	US-09-341-926-3	Sequence 3, Appli
42	356	96.7	65	4	US-09-341-926-4	Sequence 4, Appli
43	355	96.5	63	6	5166318-13	Patent No. 5166318
44	355	96.5	64	1	US-07-763-860-2	Sequence 2, Appli
45	355	96.5	92	6	5166318-12	Patent No. 5166318

ALIGNMENTS

```
RESULT 1
US-08-199-506A-2
; Sequence 2, Application US/08199506A
; Patent No. 5472938
;  GENERAL INFORMATION:
;    APPLICANT:  Arvinte, Tudor
;    TITLE OF INVENTION:  Pharmaceutical Compositions
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CIBA-GEIGY Corp.; Patent Department
;      STREET:  556 Morris Avenue
;      CITY:  Summit
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07901
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/199,506A
;      FILING DATE:  17-FEB-1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kaiser, Karen G
;      REGISTRATION NUMBER:  33,506
;      REFERENCE/DOCKET NUMBER:  4-19453/A/MA 2079
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  908-277-3318
;      TELEFAX:  908-277-4306
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-199-506A-2


  Query Match           100.0%;  Score 368;  DB 1;  Length 65;
  Best Local Similarity  100.0%;  Pred. No. 4.1e-29;
  Matches   65;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
```

```
Qy      61 EEYLQ 65
           |||||
Db      61 EEYLQ 65


RESULT   2
US-08-385-551-1
; Sequence 1, Application US/08385551
; Patent No. 5674838
;  GENERAL INFORMATION:
;    APPLICANT:  Obermeier, Rainer
;    APPLICANT:  Ludwig, Jurgen
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Hropot, Max
;    TITLE OF INVENTION:  Hirudin derivatives and a process for
;    TITLE OF INVENTION:  their preparation.
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W. Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/385,551
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Millonig, Robert C.
;      REGISTRATION NUMBER:  34,395
;      REFERENCE/DOCKET NUMBER:  02481.1423-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 408-4000
;      TELEFAX:  (202) 408-4400
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  desulfato-Tyr63 hirudin
;    FEATURE:
;      NAME/KEY:  protein
;      LOCATION:  1..65
US-08-385-551-1


  Query Match             100.0%;  Score 368;  DB 1;  Length 65;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-29;
  Matches   65;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy      61 EEYLQ 65
           |||||
Db      61 EEYLQ 65


RESULT   3
US-08-378-225A-2
; Sequence 2, Application US/08378225A
; Patent No. 5733874
;  GENERAL INFORMATION:
;    APPLICANT:  Arvinte, Tudor
;    TITLE OF INVENTION:  Stable Dry Powders
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CIBA-GEIGY Corporation
;      STREET:  7 Skyline Drive
;      CITY:  Hawthorne
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10532
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30B
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/378,225A
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9401448.7
;      FILING DATE:  26-JAN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Spruill, W. Murray
;      REGISTRATION NUMBER:  32,943
;      REFERENCE/DOCKET NUMBER:  4-19842/A/MA2093
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (919) 541-8615
;      TELEFAX:  (919) 541-8689
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid   ,
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-378-225A-2


  Query Match             100.0%;  Score 368;  DB 1;  Length 65;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-29;
  Matches   65;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy      61 EEYLQ 65
           |||||
Db      61 EEYLQ 65


RESULT   4
5180668-1
;Patent No. 5180668
;    APPLICANT: CRAUSE, PETER;HABERMANN, PAUL;TRIPIER, DOMINIQUE
;    TITLE OF INVENTION: HIRUDIN DERIVATIVE
;    NUMBER OF SEQUENCES: 10
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/295,422
;      FILING DATE: 10-JAN-1989
;SEQ ID NO:1:
;      LENGTH: 65
5180668-1


  Query Match             100.0%;  Score 368;  DB 6;  Length 65;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-29;
  Matches   65;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy     61 EEYLQ 65
          |||||
Db     61 EEYLQ 65


RESULT   5
5180668-9
;Patent No. 5180668
;     APPLICANT: CRAUSE, PETER;HABERMANN, PAUL;TRIPIER, DOMINIQUE
;     TITLE OF INVENTION: HIRUDIN DERIVATIVE
;     NUMBER OF SEQUENCES: 10
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/295,422
;       FILING DATE: 10-JAN-1989
;SEQ ID NO:9:
;       LENGTH: 65
5180668-9


  Query Match             99.5%;  Score 366;  DB 6;  Length 65;
  Best Local Similarity   98.5%;  Pred. No. 6.4e-29;
  Matches   64;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
          :||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 MTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy     61 EEYLQ 65
          |||||
Db     61 EEYLQ 65


RESULT   6
US-07-970-596-1
; Sequence 1, Application US/07970596
; Patent No. 5232912
;  GENERAL INFORMATION:
;     APPLICANT:  Krstenansky, John L
;     TITLE OF INVENTION:  Anticoagulant Peptides
;     NUMBER OF SEQUENCES:  9
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Marion Merrell Dow Inc.
;       STREET:  2110 East Galbraith Rd.
;       CITY:  Cincinnati  P.  O.  Box 156300
;       STATE:  Ohio
;       COUNTRY:  USA
;       ZIP:  45215-6300
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/970,596
;       FILING DATE:  30-OCT-1992
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/645,539
;       FILING DATE:  24-JAN-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Collier, Kenneth J
;       REGISTRATION NUMBER:  P-34,982
;       REFERENCE/DOCKET NUMBER:  M01384A
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (513) 948-7834
;       TELEFAX:  (513) 948-7961
;       TELEX:  214320
;  INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  65 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     ORIGINAL SOURCE:
;       ORGANISM:  Hirudo medicinalis (Medicinal Leech)
;       STRAIN:  Class: Eukaryota; Metazoa; Annelida; Hirudinea
;     FEATURE:
;       NAME/KEY:  Peptide
;       LOCATION:  1..65
;       OTHER INFORMATION:  /label= Features
;       OTHER INFORMATION:  /note= "Serine Protease Inhibitor; Sulfatation;
;       OTHER INFORMATION:  Multigene Family; 3D-Structure; 6970 MN; 20445
;       OTHER INFORMATION:  CN."
;     FEATURE:
;       NAME/KEY:  Peptide
;       LOCATION:  1..65
;       OTHER INFORMATION:  /label= Properties
;       OTHER INFORMATION:  /note= "Hirudin is a potent thrombin-specific
;       OTHER INFORMATION:  protease inhibitor that forms a stable
;       OTHER INFORMATION:  non-covalent complex with "
;     FEATURE:
;       NAME/KEY:  Peptide
;       LOCATION:  1..65
;       OTHER INFORMATION:  /label= Features
;       OTHER INFORMATION:  /note= "(cont'd) alpha-thrombin, thereby
;       OTHER INFORMATION:  abolishing its ability to cleave fibrinogen."
;     FEATURE:
;       NAME/KEY:  Peptide
;       LOCATION:  63
;       OTHER INFORMATION:  /label= Features
;       OTHER INFORMATION:  /note= "Modified Residue (RES),RES 63 Sulfatation"
;     PUBLICATION INFORMATION:
;       AUTHORS:  Dodt, J
;       AUTHORS:  Muller, H P
;       AUTHORS:  Seemuller, U
;       AUTHORS:  Chang, J Y
;       JOURNAL:  FEBS Lett.
;       ISSUE:  165
;       PAGES:  180-183
;       DATE:  1984
;     PUBLICATION INFORMATION:
;       AUTHORS:  Petersen, T E
;       AUTHORS:  Roberts, H R
;       AUTHORS:  Sottrup-Jensen, L
;       AUTHORS:  Magnusson, S
;       AUTHORS:  Bagdy, D
;       JOURNAL:  Book: Protides of The Biological Fluids,Proc. 23rd Colloq.
;       PAGES:  145-149
;       DATE:  1976
;     PUBLICATION INFORMATION:
;       AUTHORS:  Folkers M, P J
;       AUTHORS:  Clore, G M
;       AUTHORS:  Driscoll, P C
;       AUTHORS:  Dodt, J
;       AUTHORS:  Koehler, S
;       TITLE:  Structure by NMR
;       JOURNAL:  Abstracted in GenBank
US-07-970-596-1


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   96.9%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
          : |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 VVYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy     61 EEYLQ 65
          |||||
Db     61 EEYLQ 65
```

```
RESULT   7
US-07-985-110-18
; Sequence 18, Application US/07985110
; Patent No. 5286714
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5286714el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/985,110
;      FILING DATE:  03-DEC-1992
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-07-985-110-18


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           |||||||||||||||||||||||||||||:|||||||||||||||||||||||||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSEGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT   8
US-07-985-110-22
; Sequence 22, Application US/07985110
; Patent No. 5286714
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5286714el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/985,110
;      FILING DATE:  03-DEC-1992
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-07-985-110-22


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           |||||||||||||||||||||||||||||||||||||||||||||||||||:||||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNEGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT   9
US-07-985-110-23
; Sequence 23, Application US/07985110
; Patent No. 5286714
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5286714el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
```

```
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/985,110
;      FILING DATE:  03-DEC-1992
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-07-985-110-23


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           |||||||||||||||||||||||||||||||||||||||||||||||||||:|||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNEGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT  10
US-07-763-860-1
; Sequence 1, Application US/07763860
; Patent No. 5296352
;  GENERAL INFORMATION:
;    APPLICANT:  Schlaeppi, Jean-Marc
;    TITLE OF INVENTION:  Monoclonal Antibodies Directed Against
;    TITLE OF INVENTION:  Complexes Formed by Thrombin and Thrombin Inhibitors
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CIBA-GEIGY Corporation
;      STREET:  7 Skyline Drive
;      CITY:  Hawthorne
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10532
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/763,860
;      FILING DATE:  19910923
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9021370.3
;      FILING DATE:  02-OCT-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lazar, Steven R.
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  4-18266/A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (919)541-8615
;      TELEFAX:  (919)541-8689
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  hirudo medicinalis
;      INDIVIDUAL ISOLATE:  hirudin variant type HV1
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  27
;      OTHER INFORMATION:  /note= "Lys may replaced by Ile or
;      OTHER INFORMATION:  Glu"
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  36
;      OTHER INFORMATION:  /note= "Lys may replaced by Ile or
;      OTHER INFORMATION:  Glu"
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  47
;      OTHER INFORMATION:  /note= "Lys may replaced by Ile or
;      OTHER INFORMATION:  Glu"
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  51
;      OTHER INFORMATION:  /note= "His may replaced by Leu or
;      OTHER INFORMATION:  Asp"
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  1..2
;      OTHER INFORMATION:  /note= "Val 1-Val 2 may be replaced
;      OTHER INFORMATION:  by Thr or Leu-Thr"
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  63
;      OTHER INFORMATION:  /note= "Tyr 63 is a modified Tyr
US-07-763-860-1


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   96.9%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
           : |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 VVYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy      61 EEYLQ 65
           |||||
Db      61 EEYLQ 65


RESULT  11
US-08-099-053-18
; Sequence 18, Application US/08099053
; Patent No. 5316947
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5316947el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
```

```
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/099,053
;      FILING DATE:  19930729
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/985,110
;      FILING DATE:  03-DEC-1992
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-099-053-18


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           ||||||||||||||||||||||||||||||:||||||||||||||||||||||||||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSEGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT  12
US-08-099-053-22
; Sequence 22, Application US/08099053
; Patent No. 5316947
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5316947el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/099,053
;      FILING DATE:  19930729
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/985,110
;      FILING DATE:  03-DEC-1992
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-099-053-22


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           ||||||||||||||||||||||||||||||||||||||||||||||||||||:||||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNEGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT  13
US-08-099-053-23
; Sequence 23, Application US/08099053
; Patent No. 5316947
;  GENERAL INFORMATION:
;    APPLICANT:  Crause, Peter
;    APPLICANT:  Habermann, Paul
;    APPLICANT:  Tripier, Dominique
;    APPLICANT:  Ulmer, Wolfgang
;    APPLICANT:  Schmid, Gerhard
;    TITLE OF INVENTION:  No. 5316947el Synthetic Isohirudins with
;    TITLE OF INVENTION:  Improved Stability
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/099,053
;      FILING DATE:  19930729
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
```

```
;      APPLICATION NUMBER:  US 07/985,110
;      FILING DATE:  03-DEC-1992
;      APPLICATION NUMBER:  DE P 4140381.9
;      FILING DATE:  07-DEC-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Einaudi, Carol P.
;      REGISTRATION NUMBER:  32,220
;      REFERENCE/DOCKET NUMBER:  02481-1244-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-099-053-23


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   98.4%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPE 61
           |||||||||||||||||||||||||||||||||||||||||||||||||:||||||||
Db       2 TYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNEGDFEEIPE 61

Qy      62 EYLQ 65
           ||||
Db      62 EYLQ 65


RESULT  14
US-07-854-596B-2
; Sequence 2, Application US/07854596B
; Patent No. 5434073
;  GENERAL INFORMATION:
;    APPLICANT:  Dawson, Keith M
;    APPLICANT:  Hunter, Michael G
;    APPLICANT:  Czaplewski, Lloyd G
;    TITLE OF INVENTION:  Proteins and nucleic acids
;    NUMBER OF SEQUENCES:  73
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dr. John J. McDonnell
;      STREET:  Ten South Wacker Drive, Suite 3000
;      CITY:  Chicago
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/854,596B
;      FILING DATE:  03-JUN-1992
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDonnell, John J
;      REGISTRATION NUMBER:  26,949
;      REFERENCE/DOCKET NUMBER:  92,337
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-715-1000
;      TELEFAX:  312-715-1234
;      TELEX:  910-221-5317
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-854-596B-2


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   96.9%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
           : ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 VVYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy      61 EEYLQ 65
           |||||
Db      61 EEYLQ 65


RESULT  15
US-08-058-699-1
; Sequence 1, Application US/08058699
; Patent No. 5443827
;  GENERAL INFORMATION:
;    APPLICANT:  Edgar Haber
;    APPLICANT:  Christoph Bode
;    APPLICANT:  Marschall S. Runge
;    TITLE OF INVENTION:  FIBRIN-TARGETED INHIBITORS OF
;    TITLE OF INVENTION:  THROMBIN
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fish & Richardson
;      STREET:  225 Franklin Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  U.S.A.
;      ZIP:  02110-2804
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;      COMPUTER:  IBM PS/2 Model 50Z or 55SX
;      OPERATING SYSTEM:  MS-DOS (Version 5.0)
;      SOFTWARE:  WordPerfect (Version 5.1)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/058,699
;      FILING DATE:  19930503
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  N/A
;      FILING DATE:  N/A
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Janis K. Fraser, Ph.D.
;      REGISTRATION NUMBER:  34,819
;      REFERENCE/DOCKET NUMBER:  05433/004001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 542-5070
;      TELEFAX:  (617) 542-8906
;      TELEX:  200154
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  65
;      TYPE:  AMINO ACID
;      STRANDEDNESS:
;      TOPOLOGY:  Linear
US-08-058-699-1


  Query Match             97.8%;  Score 360;  DB 1;  Length 65;
  Best Local Similarity   96.9%;  Pred. No. 2.4e-28;
  Matches   63;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 LTYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60
           : ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 VVYTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIP 60

Qy      61 EEYLQ 65
           |||||
```

Db 61 EEYLQ 65

Search completed: June 24, 2002, 20:52:07
Job time: 121 sec